

ABSTRACT OF THE DISCLOSURE

A prosthetic knee mechanism that improves stability and flexion of an individual during use. The prosthetic knee mechanism has a braking mechanism to increase stance phase stability in a polycentric knee. The combination of the braking mechanism with a polycentric knee increase stance stability and reduces frictional forces on the prosthetic knee components. The prosthetic knee mechanism uses a cam mechanism to control the flexion and extension of the knee. The cam mechanism also controls the speed at which the foot and shank swing. The prosthetic knee uses a collapsible posterior linkage which allows the knee to go into a small degree of flexion at heel strike while maintaining overall knee stability.